

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: July 17, 1996  
Date Received: July 11, 1996  
Project: Metro Self Monitor, PO #M53869  
Date Samples Extracted: July 12, 1996  
Date Extracts Analyzed: July 16, 1996

**RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, AND ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**  
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M53869	0.48	0.35	0.40	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 70610(Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.48	0.48	0	0-20
Copper	mg/L (ppm)	0.35	0.40	13	0-20
Nickel	mg/L (ppm)	0.40	0.40	0	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 70610 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	5	0.48	90	80-120
Copper	mg/L (ppm)	5	0.35	91	80-120
Nickel	mg/L (ppm)	10	0.40	89	80-120
Zinc	mg/L (ppm)	5	<0.05	88	80-120

Laboratory Code: Spike Blank


Analyte:	Reporting Units	Spike Level	% Recovery MS    MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	95	96	80-120	1
Copper	mg/L (ppm)	5	97	95	80-120	2
Nickel	mg/L (ppm)	10	95	96	80-120	1
Zinc	mg/L (ppm)	5	97	97	80-120	0

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

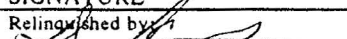

KNS AI  
7.11.96  
2:45

GERALD A. Thompson

Company ALASKAN Copper Works Contact GERALD A. Thompson  
Address 628 Harborview ST  
City, State, Zip Seattle  
Phone # (206) 382-8379 FAX # \_\_\_\_\_ Date 7-11-96

SAMPLERS (signature)	PROJECT LOCATION
	3700 Gth Ave

REMARKS	SAMPLE DISPOSAL INFORMATION
	<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD Thompson	ACW	7/11/96	1:07
Received by: 	KURT JOHNSON	FBI	7/11/96	1:10
Relinquished by:				
Received by:				



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D  
Beth M. Albertson, M.S.  
Bradley T. Benson  
Kelley D. Wilt

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044

July 17, 1996

**INVOICE # 96ACU0717-1  
DUPLICATE COPY**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M53869: Results of testing requested by  
Gerry Thompson, Project Manager for material submitted on July 11, 1996.

1 process water sample analyzed for  
Chromium, Copper, Nickel, Zinc  
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due .....

\$ 65.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044

July 17, 1996

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on July 11, 1996  
from your Metro Self Monitor, PO #M53869 project.

We appreciate this opportunity to be of service to you and hope you will call if you  
should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

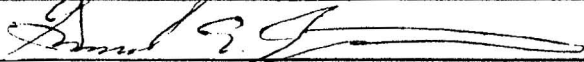


Kurt Johnson  
Chemist



keh  
Enclosures  
ACU0717R.DOC

## SAMPLE CHAIN OF CUSTODY

Company Alaskan Copper Works Contact Wesley A. Thompson  
Address 628 Harvard St  
City, State, Zip Seattle WA  
Phone # (206) 382-8377 FAX # (206) 382-4309 Date 7-18

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	Metro Self-Monitor	M 53948
SAMPLERS (signature)	PROJECT LOCATION	
	3200 6 <sup>th</sup> Ave S.	
REMARKS	SAMPLE DISPOSAL INFORMATION	
	<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD A. Thompson	A.C.W	7/18/96	12:48
Received by: 	KURT JOHNSON	F.B.I	7/18/96	12:50
Relinquished by:				
Received by:				